Claims

1. A process for introducing a filling level measurement device in a tank whose level of filling with a filling medium is to be measured, comprising

providing a tank with a passage opening leading from outside the tank through the wall of the tank to the inside of the tank, the passage opening comprising an opening wall protruding into the passage toward the inside of the tank, which at least partially tapers toward the inside of the tank,

introducing a seal into the passage opening of the tank and the filling level measurement device,

providing a filling level measurement device having a dog fashioned at least in part on the perimeter of the filling level measurement device on the tank side,

introducing the filling level measurement device into the passage opening from the outside of the tank, the until a portion of the filling level measurement device protrudes through the passage opening wall, leaving a clearance area between the protruding portion of the filling level measurement device and the opening wall, and

with the dog of the filling level measurement device, pressing the seal in the direction of the inside of the tank, against the opening wall and into the clearance area.

2. The process according to claim 1 in which the seal is pressed, in a deforming manner, into the clearance area, bulging forth in part into the interior space of tank.

3. A filling level measurement device for installation in a tank opening having a passage opening wall leading from the outside of the tank to the inside of the tank which at least partially tapers toward the inside of the tank, the filling level measurement device comprising

a portion fittable through the passage opening wall, the fittable portion leaving a clearance area between the fittable portion and the opening wall, and

a dog fashioned at least in part on the perimeter of the filling level measurement device adjacent the fittable portion to press and deform a seal in the direction of the inside of the tank against the opening wall and into the clearance area.

4. The filling level measurement device of claim 3, wherein the perimeter of the filling level measurement device adjacent to the fittable portion and dog further includes a contour that is not parallel to a longitudinal axis of the passage opening, for the purpose of guiding the seal.

5. The filling level measurement device of claim 3, wherein the filling level measurement device has an increasing circumference adjacent to the fittable portion and dog, for the purpose of guiding the seal to the clearance area.

6. The filling level measurement device of claim 3, wherein the filling level measurement device has a depression about its circumference adjacent to the fittable portion and dog, forming a recess for the purpose of guiding the seal.

7. The filling level measurement device of claim 3, wherein the filling level measurement device has a circumferential area adjacent to the fittable portion and dog which runs, at least in part, in the form of an arc toward the inside of the tank and the clearance area, for the purpose of guiding the seal.

8. A tank opening for accommodating a filling level measurement device, comprising

a passage opening between the outside of the tank and the inside of the tank sized for insertion of a filling level measuring device and a seal,

wherein the passage opening has, toward the inside of the tank, an opening wall protruding into the passage opening which at least partially tapers toward the inside of the tank.

9. The tank opening of claim 8, wherein the passage opening comprises a connector or flange having, toward the inside of the tank, a smooth welded transition to the wall on the inside of the tank.

10. The tank opening of claim 8 having a filling level measurement device installed therein,

the filling level measurement device comprising

a portion fittable through the passage opening wall, the fittable portion leaving a clearance area between the fittable portion and the opening wall, and

a dog fashioned at least in part on the perimeter of the filling level measurement device adjacent the fittable portion,

wherein the inside wall of the tank and the inside end of the filling level measurement device lie substantially in one plane.

11. The tank of claim 8 having a filling level measurement device and seal installed therein,

the filling level measurement device comprising

a portion fittable through the passage opening wall, the fittable portion leaving a clearance area between the fittable portion and the opening wall, and

a dog fashioned at least in part on the perimeter of the filling level measurement device adjacent the fittable portion,

wherein the dog presses and deform the seal in the direction of the inside of the tank against the opening wall and into the clearance area, bulging partially out of clearance area, into the interior space of the tank.